Appendix A

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,539	10/24/2003	Dany Sylvain	7000-271A	2302
27820 WITHROW &	7590 12/11/200 TERRANOVA, P.L.L.		EXAM	INER
	Y FOREST DRIVE		KIM, WES	LEY LEO
SUITE 160 CARY, NC 27:	51 8		ART UNIT	PAPER NUMBER
CART, NC 27	516		2617	
			MAIL DATE	DELIVERY MODE
			12/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)						
	10/693.539							
Office Action Summary	Examiner	SYLVAIN, DANY Art Unit						
,	WESLEY L. KIM	2617						
The MAILING DATE of this communication app								
Period for Reply		•						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be evaluable under the provisions of 37 CFR 1.1 after SIX (8) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period to reliable to reply with the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 38(a). In no event, however, may s will apply and will expire SIX (6) MC , cause the application to become /	ICATION. I reply be timely ffled INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 19 S	eptember 2008.							
	action is non-final.							
3) Since this application is in condition for allowar	•	-						
closed in accordance with the practice under E	:x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.						
Disposition of Claims								
4) Claim(s) 1.2.4-23 and 25-42 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1.2.4-23 and 25-42 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.							
Application Papers								
9) The specification is objected to by the Examine								
10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the	•	-						
Replacement drawing sheet(s) including the correct								
11)☐ The oath or declaration is objected to by the Ex								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application						

U.S. Petent and Trademark Office PTOL-326 (Rev. 08-08)

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/19/08 has been entered.

Response to Amendment

- 2. This Office Action is in response to Amendment filed on 9/19/08.
 - Claims 1-2 and 22-23 are currently amended.
 - Claims 3 and 24 are cancelled.
 - Claims 41-42 are newly added.
 - Claims 1-2, 4-23, and 25-42 are pending in the current Office Action

Response to Arguments

3. Applicant's arguments with respect to claims 1-2, 4-23, and 25-42 have been considered but are most in view of the new ground(s) of rejection.

Specification

 The disclosure is objected to because of the following informalities: Paragraph 2 of the Specification includes a blank for the US patent application serial number.
 Appropriate correction is required.

Claim Rejections - 35 USC § 103

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-8, 11-16, 18-19, 21-23, 25-26, 29-34, 36-37, and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundar et al (US 2003/0134650 A1) in view of Malmstrom (US 5901359).

Regarding Claims 1, 11, 22, and 29, Sundar teaches a) a wireline network interface (Fig.3:112 and Fig.3:120); b) a local wireless interface providing a communication zone in which communications with a mobile terminal are possible (Fig.5:Access Point 204), the mobile terminal associated with a primary directory number associated with a wireline network (Par.21-23 and Par.96, obviously there is a primary directory number so that the mobile station can be contacted while in the LAN which is a wireline network) and adapted to communicate with the local wireless interface to facilitate a call through the wireline network (Fig.5: LAN) and communicate with a wireless network to facilitate a call through the wireless network (Par.96, mobile station can roam and communicate with VWWAN); and c) a control system cooperating with the wireline network interface and the local wireless interface (Fig.5: MSC 302) and adapted to: i) use the primary directory number associated with the wireline network to establish through the wireline network a first call involving the mobile terminal by communicating with the wireline network via the wireline network interface (Par.21-23 and Par.96,

obviously there is a primary directory number so that the mobile station can be contacted while in the LAN which is a wireline network) and communicating with the mobile terminal via the local wireless interface (Fig.5: Access Point 204 is used so the mobile terminal communicates with the local wireless interface); ii) during the first call (Par.23), detect the mobile terminal moving out of the local wireless communication zone (Par.96:lines 9-16); and iii) initiate a transition of the first call being connected to the mobile terminal through the wireline network via the local wireless interface (Par.96: handover is initiated) to the first call being connected to the mobile terminal through the wireless network using a temporary directory number provided by a wireless switch currently providing wireless access for the mobile terminal (Par.21-23, temporary directory number is provided by wireless switch (i.e. MSC of WWAN)), however Sundar does not expressly teach a primary directory number associated with the wireline network.

Malmstrom teaches that it is well known in the art that a primary directory number may be associated with a wireline network (Col.10:lines 43-45). Clearly, when the subscriber roams into a wireless network, the subscriber is provided service by utilizing a temporary directory number (Col.11:lines 5-20).

Therefore, one of ordinary skill in the art would have found it obvious to modify Sundar with Malmstrom at the time of the invention such that a primary directory number associated with the wireline network so that a user may be provided with the best service at the lowest possible cost, since wireline networks are cheaper than wireless.

Regarding Claims 2 and 23, Sundar teaches the mobile terminal is registered with the wireless network while the first call is established and the temporary directory number is assigned to the mobile terminal by the wireless switch upon registration (Par.96:lines 30-34, Par.22, and Par.102, the mobile terminal must be registered before being assigned a temporary directory number, unless the mobile terminal has already registered with the wireless network and the switch has cached the temporary directory number).

Regard Claims 4 and 25, Sundar teaches the transition is initiated by sending a message configured to initiate establishing a wireless network connection to the mobile terminal through the wireless network using the temporary directory number associated with the mobile terminal (Par.96:lines 17-20 and Par.22 and Par.102, request for the temporary directory number is the message initiating); connecting the first call to the wireless network connection (Par.96:lines 33-39), and dropping a wireline network connection with the mobile terminal (Par.71:lines 9-11).

Regarding Claim 5, Sundar teaches the wireline network interface is a traditional telephony line interface (<u>Fig.3:112, PSTN</u>).

Regarding Claim 6, Sundar teaches the wireline network interface is a voice over packet interface (Fig.3:120, IP indicates that voice would be transmitted as voice over packet on this interface).

Regarding Claim 7, Sundar teaches the wireless network is of CDMA (Par.13).

Regarding Claims 8, 21, 26, and 40, Sundar teaches the transition is initiated by sending a message intended for a wireline switch and configured to cause the wireline switch to transfer the first call to the mobile terminal through the wireless network using the temporary directory number (Par.96:lines 17-20 and Par.22 and Par.102, request for the temporary directory number by the mobile terminal is the message initiating).

Regarding Claims 12 and 30, Sundar teaches the control system includes signal processing function adapted to provide any necessary conversion of signals between the wireline network interface and the local wireless interface (Par.53, voice coding technology).

Regarding Claims 18-19 and 36-37, Sundar teaches the local wireless interface is adapted to support communications with the mobile terminal using 802.11 wireless local area network telephone technology (Par.9 and Fig.3: LAN).

Regarding Claim 39, Sundar teaches inserting a signal in the voice path for the first call prior to initiating the transition to warn parties to the first call of transfer (Par.96:lines 28-30).

Regarding Claims 13-16 and Claims 31-34, Sundar teaches that a mobile station determines the mobile station moving out of the communication zone by detecting bit error rate, a degradation in quality, an inability to communicate with the mobile terminal, a decrease in signal strength associated with communications with the mobile terminal via the local interface surpassing a defined threshold

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(Par.96) however the combination of Sundar and Malmstrom do not expressly teach that the control system performs the detection.

The examiner takes OFFICIAL NOTICE that it is very well known in the art that power control (i.e. detection of handover based on signal strength) is capable of being performed at the mobile station or at the network side (i.e. MSC/ control system). Thefore to one of ordinary skill in the art, it would have been obvious to modify Sundar and Malmstrom such that the control system performs the detection to provide a method where the mobile station wastes less resources by allowing the network to perform the detection of when a handover is necessary.

 Claims 9-10 and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundar et al (US 2003/0134650 A1) and Malmstrom (US 5901359) in further view of Schellinger et al (US 5260988).

Regarding Claims 9 and 27, Sundar and Malmstrom teach all the limitations as recited in Claims 1, and 22, and Sundar teaches sending a message intended for a wireline switch (Par.96:lines 18-21), however the combinaton does not expressly teach causing the wireline switch to establish a three-way call based on the first call to the mobile terminal through the wireless network using the temporary directory number.

Schellinger teaches that it is well known in the art that a transition is initiated by sending a message (Co1.8:30, i.e. request) intended for a wireline switch (Co1.8:30-31) and configured to cause the wireline switch to establish a three-way call (Col.8:32-34) based on the first call to the mobile terminal through

the wireless network using the temporary directory number (Col.8;29-34, i.e. the TLDN/cellular telephone number). This concept of utilizing a TLDN in a 3-way call to transition between a wired to a wireless network is known as can be seen in Schellinger.

To a skilled artisan, it would have been obvious to modify Sundar,
Malmstrom, and Schelling at the time of the invention, such that the wireline
switch to establish a three-way call based on the first call to the mobile terminal
through the wireless network using the temporary directory number, to provide a
method where a call can be handed off as it roams between different networks so
that a users on-going communication can continue with the least amount of
interruption.

Regarding Claims 10 and 28, Sundar teaches a second message intended for the wireline switch and configured to instruct the wireline switch to drop a wireline network connection (Par.71:lines 9-11).

 Claims 20 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundar et al (US 2003/0134650 A1) and Malmstrom (US 5901359) in further view of Hamalainen et al (US 2002/0061744 A1).

Regarding Claims 20 and 38, Sundar and Malmstrom teaches all the limitations as recited in claims 1 and 22, however the combination does not expressly teach the local wireless interface is adapted to support communications with the mobile terminal using Bluetooth.

Hamalainen teaches that a local wireless interface is adapted to support communication with a mobile terminal using Bluetooth (Par. 20).

Therefore, to a skilled artisan it would have been obvious to modify Sundar and Malmstrom with Hamalainen such that the local wireless interface is adapted to support communications with the mobile terminal using Bluetooth, to provide a low cost method of short range wireless voice and data links between devices.

 Claims 17 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundar et al (US 2003/0134650 A1) and Malmstrom (US 5901359) in further view of Charney et al (US 2004/0132485 A1).

Regarding Claims 17 and 35, Sundar and Malmstrom teaches all the limitations as recited in Claims 1 and 22, however the combination does not expressly teach that the local wireless interface is adapted to support communications with the mobile terminal using cordless telephone technology.

Charney teaches that it is well known in the art that a wireless LAN and access points provide data services by a cordless telephone (Par.28 and Fig.4).

Therefore, to a skilled artisan it would have been obvious to modify Sundar and Malmstrom with Charney, such that that the local wireless interface is adapted to support communications with the mobile terminal using cordless telephone technology, to provide a method where a dual mode phone may operate in a wireline system when possible so that the lowest cost may be incurred for service.

Claims 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundar et al (US 2003/0134650 A1) and Malmstrom (US 5901359) in further view of Ginter (US 5579375).

Regarding Claims 41 and 42, Sundar and Malmstrom teach all the limitation as recited in Claims 1 and 22, however the combination does not expressly teach a visiting location register is associated with the wireless switch and accesses the temporary directory number from the wireless switch and provides the temporary directory number directly or indirectly via a home location register to a wireline switch in the wireline network.

Ginter teaches that it is well known in the art that a visiting location register is associated with a wireless switch and accesses the temporary directory number from the wireless switch and provides the temporary directory number directly or indirectly via a home location register to an initiating wireless switch in another wireless network (Col.8:lines 45-65). To a skilled artisan, this concept of obtaining temporary directory numbers is well known in the art and is applicable to different systems (i.e. wireless/wireline).

Therefore, to a skilled artisan it would have been obvious to modify Sundar and Malmstrom with Ginter such that a visiting location register is associated with the wireless switch and accesses the temporary directory number from the wireless switch and provides the temporary directory number directly or indirectly via a home location register to a wireline switch in the wireline network, to provide

a method where a user may be allowed to roam while making calls without having the call be disrupted.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WESLEY L. KIM whose telephone number is (571)272-7867. The examiner can normally be reached on Monday-Friday 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/ Supervisory Patent Examiner, Art Unit 2617

Wesley L Kim/ Examiner, Art Unit 2617

Application/Control No. Applicant(s)/Patent Under Reexamination 10/693,539 SYLVAIN, DANY Notice of References Cited Examiner Art Unit Page 1 of 1 WESLEY L. KIM 2617 **U.S. PATENT DOCUMENTS** Document Number Date Name Classification Country Code-Number-Kind Code MM-YYYY US-2003/0134650 A1 07-2003 Sundar et al. 455/465 Α US-2002/0061744 A1 05-2002 Hamalainen et al. 455/426 В US-5,901,359 A 05-1999 Malmstrom, Douglas Allen C 455/461 US-5,579,375 A 11-1996 Ginter, Thomas 455/417 D US-Е US-F US-G US-H US-US-J USκ US-L US-M FOREIGN PATENT DOCUMENTS **Document Number** Date Country Name Classification Country Code-Number-Kind Code MM-YYYY N 0 P Q R S T **NON-PATENT DOCUMENTS** include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) U W X

"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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	Application Number Filing Date	10893539 2003-10-24	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	First Named Inventor	Dany Sylvain	
(Not for submission under 37 CFR 1.99)	Art Unit	2617	
	Examiner Name	Wesley Leo Kim	
	Attorney Docket Number	7000-271A	

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Examiner Initial*	Cite No	Patent Number	Kind Code [†]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5890054		1999-03-30	Logsdon et al.	
	2	5940756		19 99- 08-17	Sibecas et al.	
	3	6052597		2000-04-18	Ekstrom	
	4	6104799		2000-08-15	Jain et al.	·
	5	6633636	B1	2003-10-14	McConnell et al.	
	6	6791988	B1	2004-09-14	Hameleers et al.	
	7	6940844	B2	2005-09-06	Purkayastha et at.	
	8	6985720	B2	2006-01-10	Qu et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 10893539 Filing Date 2003-10-24 First Named Inventor Dany Sylvain Art Unit 2817 Examiner Name Wesley Leo Kim Attorney Docket Number 7000-271A

	9	7043248	B2	2006-05-09	Hallenstal et al.	
	10	6243581	B1	2001-06-05	Jawanda	
	11	6327470	B1	2001-12-04	Ostling	
	12	6373828	B1	2002-04-16	Stewart et al.	
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	14	7058415	B2	2006-06-06	Bushnell et al.	
	15	5737703		1998-04-07	Byme	
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	1	20020024947	A1	2002-02-28	Luzzatti et al.	
	2	20030224795	A1	2003-12-04	Wilhoite et al.	

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INFORMATION DISCLOSURE	First Named Inventor Dany		my Sylvain	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit	2617		
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	3	20040160932	A1	2004-08	1-19	Yegoshin				
	4	20040202940	A1	2004-10) - 14	Kramer et al.				
	5	20040203608	A1	2004-10)-14	Souissi et al.				
	6	20050148353	A1	2005-07	'-07	Hicks, III et al.				
	7	20050159153	A1	2005-07	'-21	Mousseau et a	il.			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 10893539 Filing Date 2003-10-24 First Named Inventor Dany Sylvain Art Unit 2817 Examiner Name Wesley Leo Kim Attorney Docket Number 7000-271A

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